



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,882	07/21/2003	Kouichi Miyamoto	AA-600	5166
27752	7590	11/22/2006		
THE PROCTER & GAMBLE COMPANY INTELLECTUAL PROPERTY DIVISION WINTON HILL BUSINESS CENTER - BOX 161 6110 CENTER HILL AVENUE CINCINNATI, OH 45224			EXAMINER OSELE, MARK A	
			ART UNIT 1734	PAPER NUMBER

DATE MAILED: 11/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/623,882

Applicant(s)

MIYAMOTO ET AL.

Examiner

Mark A. Osele

Art Unit

1734

– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 14 September 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 and 10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 and 10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-4 and 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Widlund in view of Justmann, French Patent Publication 2,810,537 (Brutin), and Jacobs et al. Widlund shows a method of forming a plurality of pairs of fastening members comprising the steps of: making a continuous fastening composite web comprising two longitudinally extending first substrates, 8, and a longitudinally extending second substrate, 11, therebetween; providing a longitudinally extending first fastening material, 12, adhered to the second substrate (Figs. 2, 3, 4); cutting the continuous fastening composite web along a single continuous cut line, 14, comprising a plurality of repeating patterns, each of the patterns extending from one panel region through the first fastening material to extend into the other panel region and returning to the one panel region again through the fastening material (Fig. 2); cutting each of the continuous fastening members across the panel region at a cut line, 15, 16, 17, 18, 19, thereby forming a plurality of pairs of fastening members, each fastening member comprising the base panel and the tab (Fig. 4). Widlund fails to show the two longitudinally first substrates to be laterally spacedly positioned.

Justmann shows the composite web comprising two longitudinally extending first substrates, 74, 76, laterally spacedly positioned and a longitudinally extending second substrate, 34, therebetween (Figs. 3, 4). It would have been obvious to one of ordinary skill in the art at the time the invention was made to space the two longitudinally extending first substrates of Widlund as shown by Justmann because less material is used, thereby lowering cost. The references as combined fail to show the first fastening material to comprise two spaced fastening materials.

Brutin shows a method of forming a plurality of pairs of fastening members wherein a second substrate between a pair of first substrates has a pair of spaced longitudinally extending first fastening materials, 18, 19 (Page 5, line 34 to page 6, line 3). It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the single fastening material of Widlund with the pair of spaced fastening materials of Brutin because the two methods are shown to be functional equivalents of each other for making pairs of fastening members. The references as combined fail to show a second fastening material at the gap region.

Jacobs et al. teaches that between a pair of spaced fastening materials, 30, 32, a second fastening material, 28, with a lowered density of fastening elements (column 7, line 41 to column 8, line 2) can be added to reduce the fastening strength of the fastening members at their outer edges (column 8, lines 3-23). It would have been obvious to one of ordinary skill in the art at the time the invention was made to add the second fastening material with a lowered density of fastening elements as shown by Jacobs et al. onto the second substrate of method of the references as combined

Art Unit: 1734

because Jacobs et al. shows this different fastening material can lower the bond strength at the edge of the resultant fastening members without lowering the bond strength of the fastening members to each other. This configuration has the advantage of making it easier for a user to grasp the edge region of the fastening member when it is desired to disconnect the fastening members.

Regarding claim 2, Justmann further shows the two first substrates are fabricated by slitting a single substrate web into two longitudinally substrates and spacing the two longitudinally extending first substrates (column 6, line 61 to column 7, line 19).

Regarding claim 3, it would have been obvious to one of ordinary skill in the art at the time the invention was made to slit a first fastening member and laterally spacing the two first fastening members because Justmann teaches that slitting and separating of single substrate can easily supply a pair of spaced longitudinally extending webs.

Regarding claims 4 and 6, Justmann shows the first fastening materials to be joined to the second substrate which comprises the gap region.

Regarding claim 7, the panel region of Justmann comprises the first substrate.

3. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Widlund in view of Justmann, French Patent Publication 2,810,537 (Brutin), and Jacobs et al. as applied to claim 1 above, and further in view of Roessler et al. Roessler et al. shows a method of making fastening members wherein a stiffening material, 154, 156, is bonded to both the first and second substrates (column 23, lines 32-68) to provide for stress beam sections on the individual fastening members. It would have been obvious to one

Art Unit: 1734

of ordinary skill in the art at the time the invention was made to connect the first fastening material of the references as combined in this orientation to the first substrate in order to provide for stress beams as taught by Roessler et al.

4. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Widlund in view of Justmann, French Patent Publication 2,810,537 (Brutin), and Jacobs et al. as applied to claim 1 above, and further in view of Long et al. Long et al. shows a method of making fastening members wherein the second substrate has a higher stiffness than the first substrate in order to reduce undesired pop-opens (column 4, lines 24-34). It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the second substrate of the references as combined with a higher stiffness than the first substrate because Long et al. teaches that this reduces undesired pop-opens.

5. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Widlund in view of Justmann, French Patent Publication 2,810,537 (Brutin), and Jacobs et al. as applied to claim 1 above, and further in view of Melbye et al. Melbye et al. teaches that a second fastening material comprising an adhesive can be placed between spaced apart first fastening materials comprising mechanical fasteners (column 5, lines 11-30). It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the second mechanical fastening material of the references as combined with an adhesive fastening material because Melbye et al. shows this to be a

Art Unit: 1734

functionally equivalent alternate expedient to two different mechanical fastening materials.

### ***Response to Arguments***

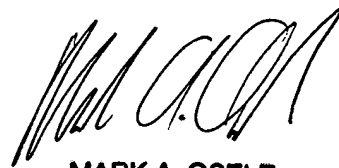
6. Applicant's arguments with respect to claims 1-8 and 10 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark A. Osele whose telephone number is 571-272-1235. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Fiorilla can be reached on 571-272-1187. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



**MARK A. OSELE**  
**PRIMARY EXAMINER**

November 18, 2006